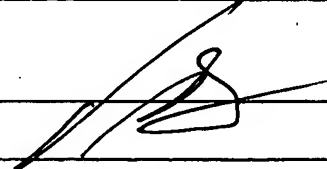


<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Ref: A20-033CIP	Serial No: 10/813,747
	Applicant: SIMMONS et al.	
	Filing Date: 03/29/2004	Art Unit:

United States Patent Documents						
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date

Foreign Patent Documents							
Examiner Initial	Publication Number	Publication Date	Country	Class	Subclass	Translation	
						Yes	No
MUS	WO 01/04268 A1	January 18, 2001					

Examiner Initial	Other Documents (by Publication, Author, Date, Title, Pertinent Pages, etc.)
MUS	SHI, S. et al (2001) "Comparison of Human Dental Pulp and Bone Marrow Stromal Stem Cells by cDNA Microarray Analysis" <i>Bone</i> , 29(6):532-539.
	JONES, E.A. et al (2002 "Isolation and Characterization of Bone Marrow Multipotential Mesenchymal Progenitor Cells" <i>Arthritis &amp; Rheumatism</i> , 46(12):3349-60.
	GRONTHOS, S. et al (2002) "Stem Cell Properties of Human Dental Pulp Stem Cells" <i>J. Dent. Res.</i> , 81(8):531-535.
MUS	Doherty, M.J. et al. (1998) "Vascular Pericytes Express Osteogenic Potential In Vitro and In Vitro" <i>Journal of Bone and Mineral Research</i> , 13:828-838.

Examiner: 	Date Considered: 10/1/07
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.	

A20-033CIP

Page 1 of 1

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 Patent and Trademark Office

JUL 20 2007  
 INFORMATION DISCLOSURE STATEMENT  
 (Use several sheets if necessary)

Application Number	10/813,747
Filing Date	March 29, 2007
First Named Inventor	Paul Simmons et al.
Art Unit	1644
Examiner Name	M. Belyavski
Attorney Docket No.	75990-B/JPW/BJA

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
MLA		Axelrad et al., New Technologies for the Enhancement of Skeletal Repair, Injury, Int. J. Care Injured (2007) 38S1:S49-S62	
I		Bruder et al., Mesenchymal Stem Cells in Bone Development, Bone Repair, and Skeletal Regeneration Therapy, J. Cell Biochem; (1994) 56:283-294	
MA		Dennis et al., Osteogenesis in Marrow-Derived Mesenchymal Cell Porous Ceramic Composites Transplanted Subcutaneously: Effect of Fibronectin and Laminin on Cell Retention and Rate of Osteogenic Expression, Cell Transplant (1992) 1:23-32, Abstract	

EXAMINER SIGNATURE	DATE CONSIDERED 10/1/07
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Applicants: Paul Simmons et al.  
 Serial No.: 10/813,747  
 Filed: March 29, 2007  
 Exhibit A

Form PTO-1449 Substitute U.S. Department of Commerce Patent and Trademark Office		Application Number	10/813,747
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		Filing Date	March 29, 2004
		First Named Inventor	Paul Simmons et al.
		Art Unit	1644
		Examiner Name	M. Belyavski
		Attorney Docket No.	75990-B/JPW/BJA



## U.S. PATENT DOCUMENTS

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		2002-0085996	07-2002	

## NON PATENT LITERATURE DOCUMENTS

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Mus		Simmons and Gronthos (1991) Int'l J. Cell Cloning 9, page 408 (abstract)	
		Office Action issued January 12, 2005 in connection with U.S. Serial No. 10/030,411	
		Office Action issued June 28, 2005 in connection with U.S. Serial No. 10/030,411	
		Final Office Action issued January 9, 2006 in connection with U.S. Serial No. 10/030,411	
		Examiner Interview Summary issued June 27, 2006 in connection with U.S. Serial No. 10/030,411	
MP		Office Action issued April 20, 2007 in connection with U.S. Serial No. 10/955,709	

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Applicants: Paul Simmons et al.  
 Serial No.: 10/813,747  
 Filed: March 29, 2004  
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JAN 22 2007		Filing Date	March 29, 2004
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		First Named Inventor	Paul Simmons et al.
		Art Unit	1644
		Examiner Name	M. Belyavskiy
		Attorney Docket No.	75990-B/JPW/BJA

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MB	US	5,197,985	03-30-1993	Caplan et al.
	US	5,226,914	07-13-1993	Caplan et al.
	US	5,486,359	01-23-1996	Caplan et al.
	US	5,591,625	01-07-1997	Gerson et al.
	US	5,811,094	09-22-1998	Caplan
	US	5,827,740	10-27-1998	Pittenger
	US	5,837,539	11-17-1998	Caplan et al.
	US	5,922,597	07-13-1999	Verfaillie et al.
	US	5,980,887	11-09-1999	Isner et al.
	US	6,022,540	02-08-2000	Bruder et al.
	US	6,087,113	07-11-2000	Caplan et al.
	US	6,261,549	07-17-2001	Fernandez et al.
	US	6,322,784	07-17-2001	Pittenger et al.
	US	6,335,195	01-01-2002	Rodgers et al.
	US	6,387,367	05-14-2002	Davis-Sproul et al.
	US	6,387,369	05-14-2002	Pittenger et al.
	US	6,645,727	11-11-2003	Thomas et al.
	US	6,709,864	03-23-2004	Pittenger et al.
	US	6,875,430	04-05-2005	McIntosh et al.
	US	7,122,178	10-17-2006	Simmons et al.
	US	2004-0107453	06-03-2004	Furcht
	US	2006-0008452	01-12-2006	Simmons
	US	2005-0158289	07-21-2005	Simmons
MB	US	2005-0281790	12-22-2005	Simmons

## FOREIGN PATENT DOCUMENTS

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
MB	WO	01/011011	02-15-2001		
EXAMINER SIGNATURE <i>[Signature]</i>			DATE CONSIDERED 10/1/07		

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Applicants: Paul Simmons et al.  
Serial No.: 10/813,747  
Filed: March 29, 2004  
Exhibit A

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Application Number	10/813,747
				Filing Date	March 29, 2004
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				Examiner Name	M. Belyavskiy
				Attorney Docket No.	75990-B/JPW/BJA

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MB		Alberico et al. (1987) Blood 69, page 1120		
		Allen, T.D., "Microenvironments in Haemopoietic and Lymphoid Differentiation" CIBA Found. Symposium 84, pages 38-67		
		Allen et al. (1990) Immunol. Ser. 49, page 1		
		Allen et al. (1990) "Marrow Biology and Stem Cells" Immunol. Ser. 49, pages 1-38		
		Anklesaria et al. (1989) Blood 74, page 1144		
		Anklesaria et al. (1987) Proc. Nat'l Acad. Sci. USA 84, page 7681		
		Bennett et al. (1991) J. Cell Sci. 99, page 131		
		Bentley (1982) Br. J. Haematol 50, page 1		
		Castro-Malaspina et al. (1980) "Characterization of Human Bone Marrow Fibroblast Colony-Forming Cells and Their Progeny" Blood 56, page 289-301		
		Castro-Malaspina et al. (1981) "Human Megakaryocyte Stimulation of Proliferation of Bone Marrow Fibroblasts" Blood 57, page 781-787		
		Clarke, Emer, "Mesenchymal Cells" www.stemcell.com (mini-review)		
MB		Dexter et al. (1977) "Conditions Controlling the Proliferation of Haemopoietic Stem Cells in Vitro" J. Cell Physiol. 91, page 335-344		

EXAMINER SIGNATURE	<i>[Signature]</i>	DATE CONSIDERED	10/1/07
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<b>Form PTO-1449</b> <b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	Application Number	10/813,747
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MB		Dexter et al. (1984) Kroc Found. Ser. 18, pages 57-96	
		Fong et al. (1997) "Nonradioactive, Agarose Minigel Procedure for Telomeric Repeat Amplification Protocol" BioTechniques 23, page 1029-1032	
		Friedenstein (1976) Int'l R. Cytology 47, page 327	
		Friedenstein (1980) "Stromal Mechanisms of Bone Marrow: Cloning in Vitro and Retransplantation in Vivo" Immunology of Bone Marrow Transplantation, pages 19-29	
		Friedenstein et al. (1970) Cell Tissue Kinetics 3, page 393	
		Friedenstein et al. (1992) Bone and Mineral 18, page 199	
		Gronthos, S., et al. (2003) J. Cell Sci. 116, pages 1827-1835	
		Gronthos, S., et al. (1994) "The STRO-1+ Fraction of Adult Human Bone Marrow Contains the Osteogenic Precursors, Blood 84, pages 4164-4173	
		Gronthos, S., et al. (1995) Blood 85, page 929	
		Hellstrom et al. (1999) Development 126, page 2047	
		Huang and Terstappen (1992) Nature 360, page 745	
		Keating et al. (1982) Nature 298, page 280	
MB		Kim et al. (1994) Science 266, page 2011	

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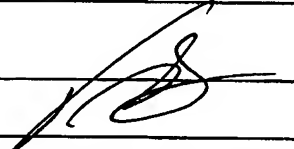
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MB		Knopse et al. (1966) Blood 28, page 398	
		Knopse et al. (1972) Blood 39, page 331	
		Lichtman (1981) Experimental Hematology 9, page 391	
		Long (1992) Experimental Hematology 20, page 288	
		MacManus and Weiss (1984) Blood 64, page 1036	
		McIntyre and Bjornson (1986) Exp. Hematol. 14, page 833	
		Miltenyi et al. (1990) Cytometry 11, page 231	
		Owen (1985) Bone and Mineral Research 3, page 1	
		Owen and Friedenstein (1988) CIBA Found. Symposium 136, page 42	
		Perkins and Fleischman (1990) Blood 75, page 620	
		Piersma et al. (1983) Br. J. Haematol. 54, page 285.	
		Rothstein et al. (1985) Blood 65, page 744	
		Simmons and Gronthos (1991) Int'l J. Cell Cloning 9, page 408 (abstract)	
MB		Simmons, P.J., et al. (1994) "Isolation, Characterization and Functional Activity of Human Marrow Stromal Progenitors in Hemopoiesis" Advances in Bone Marrow Purging and Processing: Fourth Int'l Symposium 389, pages 271-280	

EXAMINER  
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MB		Simmons et al. (1987) Nature 328, page 429				
		Simmons and Torok-Storb (1991) Blood 78, page 55				
		Simmons and Torok-Storb (1991) Blood 78, page 2848				
		Tavassoli and Friedenstein (1983) Ann. J. Hematol. 15, page 195				
		Tavassoli and Crosby (1968) Science 161, page 54				
		Testa et al. (1988) "Long-Term Bone Marrow Damage After Cytotoxic Treatment: Stem Cells and Microenvironment in Hematopoiesis: Long-Term Effects of Chemotherapy and Radiation" Hematol. 8, pages 75-92				
		Van Vlasselaer et al. (1994) Blood 84, page 753				
		Waller et al. (1995) Blood 85, page 2422				
		Weiss (1976) Anatomical Record 186, page 161				
MB		Zoltowska et al. (2001) Arch. Immunol. Ther. Exp. (Warsz) 49, pages 59-61				
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